

INDEX

SOVIET PHYSICS - CRYSTALLOGRAPHY

Volume 7, 1962



Digitized by the Internet Archive
in 2023

SOVIET PHYSICS - CRYSTALLOGRAPHY

Vol. 7, 1962

(Russian Original Volume 7, 1962, of the journal Kristallografiya)

- Afanas'ev, I. I., see Mokievskii, V. A. - 622
- Akulyonok, E. M., see Khaimov-Mal'kov, V. Ya. - 345
- Aleksandrov, K. S. The Reflection of Shear Elastic Waves from the Interface of Two Anisotropic Media - 596
- Aleksandrov, K. S., T. V. Ryzhova, and A. I. Rostuntseva. Elastic Properties of Some Sulfate Heptahydrate Crystals - 753
- Andrievskii, A. I., I. D. Nabitovich, and Ya. V. Voloshchuk. A Method of Correcting for the Background in Electron-Diffraction Measurements on Amorphous Substances - 279
- Andrievskii, A. I., I. D. Nabitovich, and Ya. V. Voloshchuk. An Electron-Diffraction Study of the Amorphous Structures of Compounds of Ga, In, and Sb with Se and Te - 704
- Andrushko, A. F. Orientation of the Microcrystals in Thin Films of Cadmium Sulfide - 172
- Andrushko, A. F., see Shalimova, K. V. - 296
- Anokhina, I. N., I. G. Berzina, I. B. Berman, and L. S. Sokolov. The Coefficient of Linear Expansion of KCl Crystals Irradiated by Protons - 338
- Anokhina, I. N., I. G. Berzina, and P. A. Savintsev. The Coefficient of Linear Expansion of Irradiated Alkali Halide Crystals - 514
- Artamonova, A. P., see Shamaeva, G. G. - 360
- Averkieva, G. K., see Ozolin'sh, G. V. - 691
- Bagaryatskii, Yu. A. Dimensions of Spots on Single-Crystal X-Ray Photographs, and Their Relationship to Block Size, Disorientation, and to Dispersion of Lattice Parameters - 721
- Bagaryatskii, Yu. A. and Travina, N. T. Orientations of New Phases Produced in Nickel-Beryllium and Copper-Beryllium Ageing Alloys - 104
- Bagdasarov, Kh. S., see Khaimov-Mal'kov, V. Ya. - 345
- Balygin, I. E. Changes in the Structure of Amorphous Quartz on Heating in Hydrogen - 746
- Beberkin, A. S., see Yurin, V. A. - 121
- Belov, K. P., M. A. Zaitseva, A. M. Kadomtseva, S. S. Kvitka, and T. L. Ovchinnikova. Magnetic Properties and Structures of Some Garnet Systems - 188
- Belov, N. V., T. S. Kuntsevich, and N. N. Neronova. Shubnikov (Antisymmetry) Groups for Infinite Double-Sided Ribbons - 651
- Belov, N. V., see Kuz'minov, Yu. S. - 765
- Belov, N. V., see Kuz'minov, Yu. S. - 767
- Belov, N. V., see Shuvalov, L. A. - 150
- Belov, N. V., see Smirnova, N. L. - 544
- Belov, N. V., see Smirnova, N. L. - 673
- Belozeroval, É. P., see Shvidkovskii, E. G. - 376
- Belozeroval, É. P., see Shvidkovskii, E. G. - 378
- Belyaev, L. M., V. V. Nabatov, and Yu. N. Martyshev. Luminescence Time in the Processes of Tribo- and Crystalloluminescence - 464
- Belyaev, L. M. and A. A. Chernov. The Growing of Crystals and Research Into the Kinetics of Their Formation - 535
- Belyustin, A. V. and V. N. Portnov. Influence of Movement and Faceting of a Crystal on the Growth Velocity of Its Faces - 214
- Berman, I. B., see Anokhina, I. N. - 338
- Berman, I. B., see Berzina, I. G. - 261
- Bernal, J. D. The Importance of Geometrical Factors in the Structure of Matter - 410
- Berzina, I. G. and P. A. Savintsev. Contact Melting of Irradiated Crystals - 131
- Berzina, I. G. and I. B. Berman. Variation in Dislocation Density, Rate of Contact Melting, and Rate of Dissolution of Crystals Exposed to Radiation - 261
- Berzina, I. G., see Anokhina, I. N. - 338
- Berzina, I. G., see Anokhina, I. N. - 514
- Beznosikov, B. V., see Drokin, A. I. - 371
- Blokh, O. G. Dispersion of γ_{63} for Crystals of ADP and KDP - 509
- Blokh, O. G., see Zheludev, I. S. - 633
- Bogdanov, S. V. On the Question of the Effect of a Mechanical Load on the Orientation of the Domains in BaTiO₃ Single Crystals - 611
- Bokut', B. V., see Fedorov, F. I. - 738
- Borisov, V. T. and A. I. Dukhin. Influence of Thermal Conditions on the Structure of the Crystallization Front in One-Component Systems - 217
- Borovskii, N. B., A. A. Predvoditelev, N. A. Tyapunina, and E. V. Étina. Investigation of the Connection between Impurity Distribution and Dislocations in Cadmium Crystals - 480
- Boyarskaya, Yu. S. and M. I. Val'kovskaya. Hardness Rosettes and Shapes of Impressions on Cubic Crystals - 202
- Brilliantov, N. A., see Grum-Grzhimailo, S. V. - 67
- Brusentsev, F. A., see Dvoryankin, V. F. - 772

- Koyba, L. M., see Pashinkin, A. S. - 247
- Kozlovskii, M. I. The Question of the Influence of an Electric Field on the Nucleation of Crystallization Center - 129
- Kripyakevich, P. I. A Structure of the Th_3P_4 Type as an Arrangement of Polyhedrons - 556
- Kripyakevich, P. I. and Evdokimenko, V. I. Crystal Structures of the Compounds $\text{Ba}_2\text{Mg}_{17}$ and $\text{Sr}_2\text{Mg}_{17}$ - 22
- Kripyakevich, P. I., E. I. Gladyshevskii, and E. N. Pylaeva. Compounds of the W_6Fe_7 Type in the Ta-Ni and Nb-Ni Systems - 165
- Kripyakevich, P. I. and Yu. B. Kuz'ma. Compounds of Rhenium and Aluminum and Crystal Structures of Some of Them - 240
- Kripyakevich, P. I., see Zarechnyuk, O. S. - 436
- Krokhina, A. I., see Kolontsova, E. V. - 125
- Kudzin, A. Yu. Dielectric Parameters of Monocrystals of Barium Titanate Containing a Trace of Cobalt - 646
- Kulyavik, A., see Kolontsova, E. V. - 281
- Kuntsevich, T. S., see Belov, N. V. - 651
- Kupriyanov, M. F. and E. G. Fesenko. An X-Ray Study of the Phase Transition in $\text{Sr}_2\text{FeTaO}_6$ - 246
- Kupriyanov, M. F. and E. G. Fesenko. X-Ray Structural Studies of Phase Transitions in Perovskite-Type Compounds - 358
- Kurdyumova, R. N. and S. A. Semiletov. Some Aspects of the Structure of $\gamma\text{-CuI}$ - 292
- Kurov, G. A. Preparation of Germanium Layers by the Iodide Method - 774
- Kurov, G. A., V. D. Vasil'ev, and M. G. Kosaganova. Experiments on the Growing of Germanium Crystals in Thin Films - 625
- Kushnir, I. P. Observation of Dislocations in Iron Microcrystals by the Etch Method - 191
- Kuz'ma, Yu. B., see Kripyakevich, P. I. - 240
- Kuz'min, R. N. A Simplified Method for Correcting for the Absorption and the Temperature Factor in Formulas for X-Ray Intensities - 634
- Kuz'mina, I. P., see Shternberg, A. A. - 265
- Kuz'minov, Yu. S., I. I. Yamzin, and N. V. Belov. Magnetic Structure of Yttrium Ferrite - 765
- Kuz'minov, Yu. S., I. I. Yamzin, E. I. Mal'tsev, and N. V. Belov. Coherent-Scattering Amplitude for Thermal Neutrons and Yttrium Nuclei - 767
- Kuznetsov, A. V. Correction for Secondary Extinction in Monocrystals - 97
- Kuznetsov, A. V. and O. N. Shvrin. The Manual Interference of X-Rays Reflected from Different Mosaic Blocks of a Crystallite - 109
- Kuznetsov, V. A., see Shternberg, A. A. - 265
- Kvitka, S. S., see Belov, K. P. - 188
- Lelekov, V. S., see Zheludev, I. S. - 369
- Levin, A. A., see Porai-Koshits, M. A. - 525
- Levin, G. I., see Polotskii, I. G. - 522
- Litvin, B. N. and L. N. Dem'yanets. Hydrothermal Synthesis of Monocrystals and Nepheline - 519
- Litvin, D. F., see Goman'kov, V. I. - 637
- Litvin, D. F., see Goman'kov, V. I. - 639
- Loshmanov, A. A., see Goman'kov, V. I. - 637
- Loshmanov, A. A., see Goman'kov, V. I. - 639
- Lubenets, S. V. and N. F. Kostin. The Selective Etching of Potassium Halides - 259
- Lushcheikin, G. A., see Gul', V. E. - 645
- Lyashchenko, B. G., see Goman'kov, V. I. - 637
- Lyashchenko, B. G., see Goman'kov, V. I. - 639
- Lyubimov, V. N., Yu. N. Venevtsev, and G. S. Zhdanov. Internal Electric Fields in Crystals of NaTaO_3 and CdTiO_3 - 9
- Lyubimov, V. N., Yu. N. Venevtsev, and G. S. Zhdanov. Calculation of Electric Fields in Complex Dipole Structures - 178
- Lyubimov, V. N. and Yu. N. Venevtsev. Origin of Dipole Configurations in Some Structures with Special Dielectric Properties - 641
- Lyubimov, V. N., Yu. N. Venevtsev, and E. Yu. Koiranskaya. Calculation of Electric Fields in Ionic Crystals - 768
- Mal'tsev, E. I., see Kuz'minov, Yu. S. - 767
- Man, L. I. and S. A. Semiletov. Structure of Thin Films of TiBiSe_2 - 686
- Marchenko, N. M., see Glik, N. V. - 488
- Markiv, V. Ya., see Teslyuk, M. Yu. - 103
- Martyshev, Yu. N., see Belyaev, L. M. - 464
- Maslov, V. I., E. B. Sokolov, and L. V. Nabatova. A Fractographic Study of Single Crystals of Germanium - 383
- Maslov, V. I., A. V. Ovodova, and L. V. Nabatova. The Anodic Etching of n-Type Germanium Single Crystals - 210
- Matyushenko, N. N. The Relationship Between the Unit Cell Volumes of Beryllides and the Atomic Volumes of the Components - 570
- Matyushenko, N. N., L. F. Verkhobin, N. S. Pugachev, and N. V. Sivokon'. The Crystal Structure of the Highest Beryllides of Molybdenum, Wolfram and Rhenium - 701
- Meil'man, M. L., see Tsukerman, B. I. - 175
- Men', A. N., see Izyumov, Yu. A. - 286
- Mill', B. V. Hydrothermal Synthesis of Yttrio-Ferric Garnet - 521
- Minaeva, K. A. Measurement of Internal Friction in Single Crystals of Ferroelectric Substances by the Composite Resonator Method - 335
- Mirskaya, E. Z., see Khodakov, A. L. - 382
- Mischenko, K. S., see Zvyagin, B. B. - 502
- Mitrofanov, O. V. Growth of Tungsten Crystals from Vapor - 630

- Mokievskii, V. A., Z. A. Smirnova, and I. I. Afanas'ev. A Dry Method of Growing Lithium Fluoride Crystals - 622
- Molotilov, B. V. The Structure of "Accommodation Zones" Close to Low-Temperature Twins in an Iron-Silicon Alloy - 195
- Molotilov, B. V. Crystal Lattice Distortions in Mechanical Twinning - 253
- Nabatov, V. V., see Belyaev, L. M. - 464
- Navatova, L. V., see Maslov, V. I. - 210
- Navatova, L. V., see Maslov, V. I. - 383
- Nabitovich, I. D., see Andrievskii, A. I. - 279
- Nabitovich, I. D., see Andrievskii, A. I. - 704
- Neronova, N. N., see Belov, N. V. - 651
- Novik, F. T., see Rumsh, M. A. - 711
- Nozik, Yu. Z. and I. I. Yamzin. Measurement of Integral Diffraction Intensities - 98
- Nozik, Yu. Z., see Yamzin, I. I. - 58
- Oancha, Candida Georgitse, Jon Teodorescu, and Paul Cristya. Study of the Structure of Thin Tellurium Films - 451
- Osipova, L. P., see Zubov, V. G. - 508
- Otpushchennikov, N. F. Determination of the Size of the Elementary Crystallization Nucleus from Acoustic Measurements - 237
- Ovchinnikova, T. L., see Belov, K. P. - 188
- Ovodova, A. V., see Maslov, V. N. - 210
- Ozerov, R. P., N. V. Rannev, V. I. Pakhomov, I. S. Rez, and G. S. Zhdanov. The Structure of KIO_3 at Room Temperature - 499
- Ozerov, R. P., see Zhdanov, G. S. - 497
- Ozol, Ya., S. Vimba, and A. Ievinš. The Crystal Structure of Rubidium Tetraphenylborate - 289
- Ozolin'sh, G. V., G. K. Averkieva, A. F. Ievin'sh, and N. A. Goryunova. An X-Ray Study of Some A^3B^5 Compounds which Display Deviation from Stoichiometry - 691
- Pakhomov, V. I. Structure of Compounds of the $(\text{CH}_3)_2\text{C}(\text{OCH}_3) \cdot \text{C}(\text{CH}_3)_2 \cdot \text{CH}_2\text{HgX}$ Series. II. Configuration of the Molecules $(\text{CH}_3)_2\text{C}(\text{OCH}_3) \cdot \text{C}(\text{CH}_3)_2 \cdot \text{CH}_2\text{HgI}$ and $(\text{CH}_3)_2\text{C}(\text{OCH}_3) \cdot \text{C}(\text{CH}_3)_2 \cdot \text{CH}_2\text{HgSCN}$ - 363
- Pakhomov, V. I., see Ozerov, R. P. - 499
- Palatnik, L. S., V. M. Koshkin, and Yu. F. Komnik. Isoelectronic Series of Semiconductor Compounds - 99
- Palatnik, L. S., Yu. F. Komnik, and V. M. Koshkin. The Crystal Chemistry of Compounds with Tetrahedral Coordination of the Atoms - 454
- Palatnik, L. S., see Papirov, I. I. - 222
- Papirov, I. I. and L. S. Palatnik. The Question of the Exptaxy of Metallic and Ionic Crystals - 222
- Pashinkin, A. S. and L. M. Kovba. The Polymorphic Forms of Cadmium Sulfide and Selenide - 247
- Pashinkin, A. S. and R. A. Sapozhnikov. A Cubic Modification of Cadmium Selenide - 501
- Petrov, D. A. and A. A. Bukhanova. The Determinative Part Played by Supercooling of the Melt in the Formation of Helical Macroinhomogeneities in Crystals Grown by the Czochralski Method - 349
- Petrov, T. G., see Kasatkin, A. P. - 770
- Petrov, V. G. Second Conference on Computers in Structure Analysis - 134
- Petrov, V. M. The Dielectric and Nonlinear Properties of Seignette's Salt at Ultra-High Frequencies - 319
- Pevsner, P. L. Absorption Spectra of Immersion Preparations of Electrocorundum - 115
- Pilyankevich, A. N. Calculation of Incoherent-Scattering Functions for X Rays. Part I. O , O^{++} , N , N^- , Na , and Na^+ - 431
- Pines, B. Ya. and A. F. Sirenko. Derivation of the Lattice Distortion and Spread in Block Size by Means of Harmonic Analysis Applied to X-Ray Reflections - 15
- Pines, B. Ya. and Sirenko, A. F. Determination of Dispersivity and Lattice Distortions in U-10 Steel after Quenching and Tempering - 101
- Pinsker, Z. G., see Chou Ling-liang - 52
- Pinsker, Z. G., see Dvoryankina, G. G. - 364
- Pivovarov, L. Kh., see Koval'skii, A. E. - 162
- Polotskii, I. G. and G. I. Levin. The Effect of Ultrasound on the Formation of the Structure of the Initial Crystallization - 522
- Pol'skii, Yu. E., see Vinokurov, V. M. - 249
- Ponyatovskii, E. G. and A. I. Zakharov. Crystal Structure of the High-Temperature Form of Thallium - 367
- Popova, A. S., see Timofeeva, V. A. - 233
- Porai-Koshits, M. A., A. A. Levin, and B. M. Shchedrin. Use of High-Speed Computers in X-Ray Calculations. Advances During 1956-1960 - 525
- Portnov, V. N., see Belyustin, A. V. - 214
- Pozdnyakov, P. G., see Vasin, I. G. - 124
- Predvoditelev, A. A. Possible Interactions of Complete Dislocations in Hexagonal Close-Packed Crystals - 759
- Predvoditelev, A. A., V. N. Rozhanskii, and V. M. Stepanova. Dislocation Structure Produced in NaCl Crystals Deformed by a Concentrated Load - 330
- Predvoditelev, A. A., see Borovskii, N. B. - 480
- Pugachev, N. S., see Matyushenko, N. N. - 701
- Puzei, I. M., see Goman'kov, V. I. - 637
- Pylaeva, E. N., see Kripyakevich, P. I. - 165
- Rannev, N. V., see Ozerov, R. P. - 499
- Rez, I. S., see Fedulov, S. A. - 62
- Rez, I. S., see Ozerov, R. P. - 499
- Roitburd, A. L. Some Peculiarities of the Growth of Crystals in Condensed Systems - 226
- Rostuntseva, A. I., see Aleksandrov, K. S. - 753
- Rozhanskii, V. N., see Klassen-Neklyudova, M. V. - 403
- Rozhanskii, V. N., see Predvoditelev, A. A. - 330
- Rumsh, M. A., F. T. Novik, and T. M. Zimkina. The Structural Features of Monocrystalline Layers of CdTe - 711

- Ryabinin, V. P., see Kirenskii, L. V. - 511
 Ryzhova, T. V., see Aleksandrov, K. S. - 753
- Sandler, R. A., see Gal'perin, E. L. - 169
 Sapozhnikov, R. A., see Pashinkin, A. S. - 501
 Savintsev, P. A., see Anokhina, I. N. - 514
 Savintsev, P. A., see Berzin, I. G. - 131
 Semiletov, S. A., see Kurdyumova, R. N. - 292
 Semiletov, S. A., see Man, L. I. - 686
 Shafranovskii, I. I. Varieties of the Cube in Crystallography - 539
 Shalimova, K. V. and A. F. Andrushko. Electron-Diffraction and X-Ray Studies of Heat-Treated Cadmium Sulfide Powder - 296
 Shamaeva, G. G. and A. P. Artamonova. Visual X-Ray Method of Orienting Diamond Crystals - 360
 Shamburov, V. A. Optical Indicatrix and Birefringence Surfaces - 302
 Shamburov, V. A. Theoretical Aspects of the Measurement of Changes in the Polarization Constants of Crystals - 476
 Shamburov, V. A. Theoretical Principles in the Experimental Determination of Electrooptical Constants of Crystals - 592
 Shaskol'skaya, M. P. and G. F. Dobrzhanskii. The Connection between the Distribution of Dislocations Around an Indentation and the Strength of the Crystal - 83
 Shchedrin, B. M., see Porai-Koshits, M. A. - 525
 Shekun, L. Ya., see Vinokurov, V. M. - 249
 Shvirin, O. N., see Kuznetsov, A. V. - 109
 Shkol'nikova, L. M., see Shugam, E. A. - 428
 Sholokhovich, M. L., see Khodakov, A. L. - 251
 Shpunt, A. A. Dislocations in a Crystal of LiF Arising Under the Influence of a Concentrated Load - 380
 Shternberg, A. A. Heterometry: The Relation of Morphology to Cracking in Crystals Containing Impurities - 92
 Shternberg, A. A., I. P. Kuz'mina, and V. A. Kuznetsov. Apparatus for Growing Single Crystals from the Melt under Pressure - 265
 Shtremel', M. A., see Kidin, I. N. - 731
 Shubnikov, A. V. Symmetry and Antisymmetry Groups (Classes) of Finite Strips - 1
 Shubnikov, A. V. Black-White Groups of Infinite Ribbons - 145
 Shubnikov, A. V. On the Attribution of all Crystallographic Symmetry Groups to Three-Dimensional Groups - 394
 Shugam, E. A. and L. M. Shkol'nikova. Statistical Determination of the Space Group of Copper Pyridinate - 428
 Shuvalov, L. A. Antisymmetry and Its Concrete Modifications - 418
 Shuvalov, L. A. Limit Groups of Double Antisymmetry - 669
- Shuvalov, L. A. and N. V. Belov. The Symmetry of Crystals in Which Ferromagnetic and Ferroelectric Properties Appear Simultaneously - 150
 Shvidkovskii, E. G., N. A. Tyapunina, and É. P. Belozherova. Influence of an Electric Field on the Behavior of Charged Dislocations - 376
 Shvidkovskii, E. G., N. A. Tyapunina, and É. P. Belozherova. Origin of Dislocations During Vibration of Crystals of Lithium Fluoride and Sodium Chloride - 378
 Sil'vestrova, I. M., see Yurin, V. A. - 312
 Sirenko, A. F., see Pines, B. Ya. - 15
 Sirenko, A. F., see Pines, B. Ya. - 101
 Sirotin, Yu. I. Magnetic Symmetry of a Tensor and the Energy of Magnetic Anisotropy - 71
 Sivokon', N. V., see Matyushenko, N. N. - 701
 Smazhevskaya, E. G., see Fedulov, S. A. - 62
 Smirnova, E. M., see Zhuravlev, N. N. - 243
 Smirnova, E. M., see Zhuravlev, N. N. - 636
 Smirnova, N. L. Possible Values of the X Coordinates in Single-Parameter Lattice Complexes of the Cubic System - 5
 Smirnova, N. L. and N. V. Belov. Two Major Groups of Structure Types Having the Formula AX_2 - 544
 Smirnova, N. L. and N. V. Belov. Structures of Alternating Thomson Cubes and Bipyramidal Network with Over-All Cubic or Diamond Symmetry - 673
 Smirnova, Z. A., see Mokievskii, V. A. - 622
 Soklakov, A. I. and G. S. Zhdanov. An X-Ray Study of Radial Distributions in Amorphous Solid Solutions of Sulfur with P_4S_{10} - 718
 Soklakov, A. I., see Zhdanov, G. S. - 447
 Sokolov, E. B., see Maslov, V. I. - 383
 Sokolov, L. S., see Anokhina, I. N. - 338
 Sokolov, V. A. and N. A. Tolstoi. Single Crystals of Thallium Halides and Some of Their Properties - 308
 Sorokina, L. P., see Tsukerman, B. I. - 175
 Staritsyn, V. E., see Yamzin, I. I. - 58
 Stepanov, V. G., see Vinokurov, V. M. - 249
 Stepanova, A. A., see Zhuravlev, N. N. - 241
 Stepanova, V. M., see Predvoditelev, A. A. - 330
 Stepina, E. I., see Garber, R. I. - 256
 Strukov, B. A. and V. A. Kopstik. Thermodynamics of the Ferroelectric Phase Transition in Crystals of $(NH_4)_2BeF_4$ - 182
 Sviridov, D. T., see Grum-Grzhimailo, S. V. - 67
- Tagieva, M. M., see Zheludev, I. S. - 473
 Talybov, A. G. and B. K. Vainshtein. An Electron Diffraction Study of the Second Superlattice in $PbBi_4Te_7$ - 32
 Temkin, D. E. Kinetics of Growth of a Crystal Needle in a Supercooled Binary Melt - 354
 Teodorescu, Jon, see Oancha, Candida Georgitse - 451

- Teslyuk, M. Yu. and Markiv, V. Ya. New Ternary Laves Phases in Systems Containing Zn, Ga, In, and Ge - 103
- Tikhomirova, N. A., see Zheludev, I. S. - 643
- Timofeeva, V. A. and A. S. Popova. Some Peculiarities of the Growth of Single Crystals of Potassium Niobate and Tantalate - 233
- Titova, V. M. and S. I. Futergendler. On the Orientation of Graphite Arising on Diamond as a Result of Its Allotropic Conversion on Heating - 749
- Tolstoi, N. A., see Sokolov, V. A. - 308
- Travina, N. T., see Bagaryatskii, Yu. A. - 104
- Treivus, E. B., see Kasatkin, A. P. - 770
- Tsinober, L. I. A Feature of the Pleochroism of Colored Synthetic Quartz - 113
- Tsukerman, B. I., M. L. Meil'man, and L. P. Sorokina. Radio Spectroscopy as a Means of Orienting Crystals - 175
- Tyapunina, N. A., see Borovskii, N. B. - 480
- Tyapunina, N. A., see Shvidkovskii, E. G. - 376
- Tyapunina, N. A., see Shvidkovskii, E. G. - 378
- Uspenskii, M. D. Etching Germanium Crystals near Dislocations - 257
- Vainshtein, B. K., see Talybov, A. G. - 32
- Vakhomchik, L. P., see Kolontsova, E. V. - 125
- Val'kovskaya, M. I., see Boyarskaya, Yu. S. - 202
- Vasil'ev, V. D., see Kurov, G. A. - 625
- Vasin, I. G., P. G. Pozdnyakov, L. V. Khramov, and M. I. Yaroslavskii. Quartz Crystals with Slotted Piezoelectric Transducers - 124
- Venevtsev, Yu. N., see Fedulov, S. A. - 62
- Venevtsev, Yu. N., see Fedulov, S. A. - 323
- Venevtsev, Yu. N., see Lyubimov, V. N. - 9
- Venevtsev, Yu. N., see Lyubimov, V. N. - 178
- Venevtsev, Yu. N., see Lyubimov, V. N. - 641
- Venevtsev, Yu. N., see Lyubimov, V. N. - 768
- Verkhorobin, L. F., see Matyushenko, N. N. - 701
- Vimba, S., see Ozol, Ya. - 289
- Vinokurov, V. M., M. M. Zaripov, Yu. E. Pol'skii, V. G. Stepanov, G. K. Chirkin, and L. Ya. Shekun. A Study of the Features of Fe^{3+} - Ion Isomorphism in Andalusite by the Paramagnetic Resonance Method - 249
- Volkova, N. V., see Grum-Grzhimailo, S. V. - 67
- Voloshchuk, Ya. V., see Andrievskii, A. I. - 279
- Voloshchuk, Ya. V., see Andrievskii, A. I. - 704
- Vyrodov, I. P. Pattern Indexing and Lattice-Parameter Deduction by Reference to Patterns for Polycrystalline Substances - 386
- Wooster, W. A., see Joel, N. - 423
- Yamzin, I. I., V. E. Staritsyn, and Yu. Z. Nozik. A Small Neutron Diffractometer - 58
- Yamzin, I. I., see Kuz'minov, Yu. S. - 765
- Yamzin, I. I., see Kuz'minov, Yu. S. - 767
- Yamzin, I. I., see Nozik, Yu. Z. - 98
- Yaroslavskii, M. I., see Vasin, I. G. - 124
- Yurasova, V. E. and V. M. Bukhanov. The Anisotropy of Cathode Sputtering of a Copper Single Crystal as a Function of its Temperature - 199
- Yurin, V. A., A. S. Beberkin, and I. S. Zheludev. Effects of Gamma Rays on the Ferroelectric Parameters of Crystals of Guanidinium Aluminum Sulfate - 121
- Yurin, V. A., I. M. Sil'vestrova, and I. S. Zheludev. The Ferroelectric Properties of Triglycine Sulfate Crystals Irradiated with γ -Quanta - 312
- Zaitseva, M. A., see Belov, K. P. - 188
- Zaitseva, M. P., see Fotchenkov, A. A. - 756
- Zakharov, A. I., see Ponyatovskii, E. G. - 367
- Zalesskii, A. V. Anisotropy in the Change in Resistivity during Magnetization of a Nickel Ferrite Single Crystal - 251
- Zamorzaev, A. M. On the 1651 Shubnikov Groups - 661
- Zarechnyuk, O. S. and P. I. Kripyakevich. Crystal Structures of Ternary Compounds in the Systems Cerium-Transition Metal-Aluminum - 436
- Zaripov, M. M., see Vinokurov, V. M. - 249
- Zaslavskii, A. I., and M. F. Bryzhina. An X-Ray Structural Investigation of the Antiferroelectric Pb_2MgWO_6 and the System of Solid Solutions Pb_2MgWO_6 - PbTiO_3 - 577
- Zaslavskii, A. I., Z. V. Karachentseva, and A. I. Zharinova. The Cation Disposition in the Spinell CuMn_2O_4 - 680
- Zharinova, A. I., see Zaslavskii, A. I. - 680
- Zhdanov, G. S. and A. I. Soklakov. An X-Ray Study of Radial Distribution in Amorphous Solid Solutions of $\text{S-As}_2\text{S}_3$ - 447
- Zhdanov, G. S., S. V. Kiselev, and R. P. Ozerov. The Question of the Magnetic Structure of Austenitic Steel - 497
- Zhdanov, G. S., see Fedulov, S. A. - 62
- Zhdanov, G. S., see Lyubimov, V. N. - 9
- Zhdanov, G. S., see Lyubimov, V. N. - 178
- Zhdanov, G. S., see Ozerov, R. P. - 499
- Zhdanov, G. S., see Soklakov, A. I. - 718
- Zheludev, I. S. and V. S. Lelekov. The Inverse Piezoelectric Effect in Z-Cut Crystals of Guanidinium Aluminum Sulfate (GAS) - 369
- Zheludev, I. S. and M. M. Tagieva. Electrical Polarization of Pyroelectric Crystals during Hydrostatic Compression (Tension) - 473
- Zheludev, I. S. and O. G. Blokh. The Morphologic Symmetry of Crystals of Pentaerythritol - 633
- Zheludev, I. S., N. A. Tikhomirova, and V. M. Fridkin. Ferroelectric Behavior of Triglycine Sulfate at High Hydrostatic Pressures - 643
- Zheludev, I. S., see Yurin, V. A. - 121
- Zheludev, I. S., see Yurin, V. A. - 312
- Zhmurova, Z. I., see Khaimov-Mal'kov, V. Ya. - 345

- Zhuravlev, N. N. and A. A. Stepanov. An X-Ray Investigation of Superconducting Alloys of Bismuth with Platinum in the Range 20-640°C - 241
- Zhuravlev, N. N. and E. M. Smirnova. Alloys of Bismuth and Antimony with Scandium - 243
- Zhuravlev, N. N. and E. M. Smirnova. X-Ray Study of the Structure of YBi and YSb - 636
- Zimkina, T. M., see Rumsh, M. A. - 711
- Zubov, V. G. and A. P. Grishina. Dielectric Constant and Refractive Indices of Quartz after Exposure to Fast Neutrons - 185
- Zubov, V. G. and M. M. Firsova. Elastic Properties of Quartz near the α - β Transition - 374
- Zubov, V. G. and L. P. Osipova. Intensities and Widths of the Raman Lines in Synthetic Quartz - 508
- Zvinchuk, R. A., see Elistratov, A. M. - 155
- Zvyagin, B. B. Polymorphism of Double-Layer Minerals of the Kaolinite Type - 38
- Zvyagin, B. B. Effect of Elongation of Crystals on the Reflection Intensity Distributions of Electron-Diffraction Patterns from Lamellar-Texture Specimens - 775
- Zvyagin, B. B. and K. S. Mischenko. Electronographic Data on the Structure of Phlogopitebiotite - 502

SOVIET PHYSICS - CRYSTALLOGRAPHY

Vol. 7, 1962

(Russian Original Volume 7, 1962, of the journal Kristallografiya)

- $A^{III}B^V$ compounds, nonstoichiometric - 691
- ABO_3 structures, perovskite, calculation of electric fields in - 768
- Absorbing crystals, circular optic axes in - 588
- Absorption-contrast method in microscopy - 506
- Absorption correction, method of applying - 634
- Absorption, ellipsoid of - 588
- Absorption spectra of deformed NaCl - 117
- Accommodation zones in Fe-Si alloy - 195
- Acoustic determination of size of crystal nuclei - 237
- Acoustic waves, internal conical refraction of - 742
- Aging of Ni-Be and Cu-Be alloys - 104
- Ag-Se system, electron-diffraction study - 52
- Ag, surface features formed at high temperatures - 127
- Al guanidinium sulfate, inverse piezoelectric effect - 369
- Alkali halides, effect of electric field on dislocations - 376
- Alkali halides, elastic anisotropy of - 516
- Alkali halides, irradiated, expansion coefficient of - 514
- Alkali halides, x irradiation of - 281
- $AlLaO_3$ - $PbTiO_3$ system - 323
- Al-Re system - 240
- Alumina, absorption spectra of - 115
- Alum, K, nucleation by ultrasonics - 492
- Aluminum-cerium-transition metal systems - 436
- Aluminum crystals, etching of - 125
- Aluminum guanidinium sulfate, effect of gamma rays on - 121
- Alum, potassium, growth rate of - 214
- Al-Y garnet - 521
- Ammonium chloride, origin of dipole ordering in - 641
- Ammonium dihydrogen phosphate, electrooptical coefficient of - 509
- Ammonium fluoberyllate, ferroelectric transition in - 182
- Amorphous films of $(Ga, In, Sb)_2(Se, Te)_3$ compounds - 704
- Amorphous $S-P_4S_{10}$ solid solutions - 718
- Amorphous substances, background correction for electron diffraction - 279
- Andalusite, iron in, EPR spectra of - 249
- Anhydrite, structure refinement of - 559
- Anisotropic media, reflection of shear waves from interface between - 596
- Anisotropic plate, transmission of - 468
- Anisotropy, elastic, of KCl and KBr - 516
- Anomalous scattering, use in study of radiation damage in alkali halides - 281
- Antiferroelectricity, origin of - 641
- Antiferroelectric Pb_2MgWO_6 - 577
- Antimony-scandium system - 243
- Antimony-yttrium compound - 636
- Antisymmetry, double, limit groups of - 669
- Antisymmetry groups - 1, 661
- Antisymmetry groups for infinite double-sided ribbons - 651
- Arsenides, In and Ga, nonstoichiometric - 691
- As_2S_3 -S amorphous solid solutions - 447
- Atomic volumes in beryllides - 570
- Austenitic steel, magnetic structure of - 497
- AX_2 structure types - 544
- Background correction in electron diffraction - 279
- $Ba(ClO_3)_2$, crystalloluminescence of - 464
- Ba_2Mg_{17} - 22
- $BaTiO_3$ - $BaHfO_3$ crystals - 251
- $BaTiO_3$, calculation of electric field in - 768
- $BaTiO_3$, Co-containing, dielectric parameters of - 646
- $BaTiO_3$, effect of mechanical stress on domains - 611
- Be-Ni and Be-Cu alloys - 104
- Benzene crystals, calculation of heat capacity - 152
- Be_2RbF_5 , statistical space-group test - 551
- Beryllides of Mo, W, and Re - 701
- Beryllides, unit-cell volumes of - 570
- Beryllium ammonium fluoride, ferroelectricity of - 182
- Bi, dislocations and cleavage in - 78
- $BiFeO_3$ - $PbTiO_3$ system - 62
- Biotite-phlogopite micas, electron-diffraction study - 502
- Biotite-vermiculite mixed-layer structures - 715
- Bi_4PbTe_7 - 32
- Bipyramidal networks - 673
- Bi-Pt alloys, superconducting - 241
- Birefringence surfaces - 302
- Bi-Sc system - 243
- $BiTiSe_2$, films of - 686
- BiY, structure of - 636
- Black-and-white symmetry - 418
- Black-and-white symmetry groups - 1
- Black-white groups for infinite double-sided ribbons - 651
- Block size, spread in - 15
- Bond types in perovskite ferroelectrics - 484
- Boundaries, large-angle, formation conditions of - 731
- Calculations, structural, use of computers (review) - 525
- Camera for orienting crystals - 518
- Camphor, effect of ultrasonics on crystallization - 522

- Cancrinite, hydrothermal crystallization of - 519
 Carbon, allotropic transformation in - 749
 CaSO_4 (anhydrite), structure refinement of - 559
 CdS and CdSe, polymorphs of - 247
 CdSe, cubic form of - 501
 Cd, segregation of impurity about dislocations in - 480
 CdS films, orientation in - 172
 CdS powder, heat-treated - 296
 CdTe films, monocrystalline - 711
 CdTiO_3 , internal electric field - 9
 Cemented carbides, cobalt phase in - 162
 Cementite, electron-diffraction study - 694
 Center of symmetry, statistical test for, in heavy-atom structures - 551
 Cerium-transition metal-aluminum systems - 436
 Characteristic temperatures, determination from diffuse scattering - 495
 $(\text{CH}_3)_2\text{C}(\text{OCH}_3) \cdot \text{C}(\text{CH}_3)_2 \cdot \text{CH}_2\text{HgX}$ compounds - 363
 Chemical deposition of PbS films - 87
 Chemical precipitation as means of decoration - 206
 Cholesteric liquid-crystal textures - 619
 Cinematography of crystal growth in ultrasonic field - 522
 Clay minerals - 38
 Cleavage of Bi crystal - 78
 Cobalt cementing phase, deformation errors in - 162
 Co compounds with perovskite-type structure - 358
 Co-containing BaTiO_3 , dielectric parameters of - 646
 Co-Fe alloy, long-range order in - 637
 Color symmetry groups - 1, 145
 Color transformation method in studying impurity segregation - 480
 Composite resonator method of measuring internal friction in ferroelectric crystals - 335
 Computers in Structure Analysis, 2nd Conference on - 134
 Computers, use in structural calculations (review) - 525
 Condensed systems, crystal growth in - 226
 Conductivity in PbTiO_3 - LaAlO_3 system - 323
 Conference on Computers in Structure Analysis, 2nd - 134
 Conical refraction, internal, of elastic waves - 742
 Contact melting in irradiated crystals - 261
 Cooling, effect on Sn whisker growth - 616
 Coordination, tetrahedral, and atomic radii - 454
 Corundum, absorption spectra of artificial - 115
 $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$, elastic properties of - 753
 Co, ternary compound with Ce and Al - 436
 Cracking and morphology in impure crystals - 92
 Cracks, role in strength of crystals - 403
 Cr, antiferromagnetic structure of - 639
 CrSi_2 - 544
 Crystal elongation, effect on electron-diffraction intensities in lamellar specimens - 775
 Crystal faces, absorption-contrast microscopy of - 506
 Crystal growth by Czochralski method, inhomogeneities in - 349
 Crystal growth, effect of motion and faceting - 214
 Crystal growth forms, kinetics of - 728
 Crystal growth from the melt under pressure - 265
 Crystal growth in condensed systems - 226
 Crystal growth in Ge films - 625
 Crystal growth of K niobate and tantalate - 233
 Crystal growth of Tl halides - 308
 Crystal growth of W from vapor - 630
 Crystal growth, research in kinetics of - 535
 Crystal growth, sectorial - 345
 Crystal growth, spherical, in ice - 488
 Crystallization, effect of ultrasonics - 522
 Crystallization front, effect of thermal conditions - 217
 Crystallization in silica glass - 746
 Crystallization nucleus, size determination of - 237
 Crystallization of K alum, effect of ultrasonics - 492
 Crystallization of nepheline, hydrothermal - 519
 Crystallographic calculations, use of computers (review) - 525
 Crystallographic varieties of the cube - 539
 Crystalloluminescence - 464
 Crystal needle growth in binary melt - 354
 Crystal nucleation, electric field effect on - 129
 Crystal orientation, x-ray camera for - 518
 Crystals of LiF, dry method for growing - 622
 CsI, triboluminescence of - 464
 Cu-Be alloys - 104
 Cube, varieties of - 539
 Cubic crystals, hardness anisotropy of - 202
 Cubic structures based on Thomson cubes - 673
 CuI, gamma form - 292
 CuMn_2O_4 , cation arrangement in - 680
 Cu pyridinate - 428
 Cu single crystal, sputtering of - 199
 Cu, ternary compounds with Ce and Al - 436
 Cu, ternary Laves phases containing - 103
 Czochralski method, inhomogeneities in - 349
 Debye-Scherrer pattern indexing - 386
 Debye temperatures, determination from diffuse scattering - 495
 Decoration, new method of - 206
 Defects in crystals, macro - 345
 Defects in Tl halides and luminescence - 308
 Deformation of NaCl and dislocations - 330
 Devonshire-Ginzburg theory of ferroelectricity - 182
 Diamond, orientation of graphite formed from - 749
 Diamonds, orientation of - 360
 Diamond symmetry, structures of, based on Thomson cubes - 673
 Dielectric constant in PbTiO_3 - LaAlO_3 system - 323
 Diffraction photographs, spot size on - 721
 Diffraction topography of crystals - 244
 Diffractometer, neutron - 58
 Diffuse-scattering patterns, broadening of reflections - 721
 Diffuse scattering, use to determine characteristic temperatures - 495

- Dipole configurations, origin of, in structures having special dielectric properties - 641
- Dipole structures, calculation of electric fields in - 178
- Dislocations arising in cleavage of Bi - 78
- Dislocations, charged, effect of electric field on - 376
- Dislocations, distribution about an indentation - 83
- Dislocations in Cd, segregation of impurity about - 480
- Dislocations in etching of Ge crystals - 257
- Dislocations in Fe crystals - 191
- Dislocations in irradiated crystals - 261
- Dislocations in proton-irradiated KCl - 338
- Dislocations, interactions of - 759
- Dislocations, origin during vibration - 378
- Dislocations revealed by x-ray diffraction topography - 244
- Dislocations, role in strength of crystals - 403
- Dislocation structure in triglycine sulfate - 605
- Dispersivity of U-10 steel - 101
- Domain structure, magnetic, effect of twinning - 253
- Domain structure of BaTiO_3 , effect of mechanical stress - 611
- Domain structure of liquid crystals, effect of ultrasonics - 263
- Domain structure of triglycine sulfate - 605, 756
- Eightlings of KIO_3 - 770
- Elastic anisotropy of KCl and KBr - 516
- Elastic constants of crystals - 423
- Elastic constants of crystals, determination by ultrasonic pulses - 326
- Elastic waves and acoustic axes - 601
- Elastic waves, internal conical refraction of - 742
- Elastic waves, shear, reflection from interface between anisotropic media - 596
- Elastomers, electrets of - 645
- Electric field, effect on charged dislocations - 376
- Electric field, influence on crystal nucleation - 129
- Electric fields, calculation in dipole structures - 178
- Electric fields in ionic crystals, calculation of - 768
- Electric fields, internal, in NaTaO_3 and CdTiO_3 - 9
- Electrical studies of PbTiO_3 - BiFeO_3 system - 62
- Electrical study of PbTiO_3 - LaAlO_3 system - 323
- Electrical symmetries - 418
- Electrocorundum, absorption spectra of - 115
- Electron-diffraction background correction - 279
- Electron-diffraction intensities, effect of crystal elongation in lamellar specimens - 775
- Electron diffraction of CuI films - 292
- Electron-diffraction study of Te films - 451
- Electron paramagnetic resonance of Fe in andalusite - 249
- Electron spin resonance as means of crystal orientation - 175
- Electrooptical coefficients of $\text{NH}_4\text{H}_2\text{PO}_4$ and KH_2PO_4 - 509
- Electrooptical constants of crystals, determination of - 592
- Elongation of crystals, effect on electron-diffraction intensities in lamellar specimens - 775
- Energy levels of nickel ion - 67
- Entropies of organic crystals, calculation of - 152
- Epitaxy of metallic and ionic crystals - 222
- Er ferrite, domain structure - 371
- Etching, anodic, of Ge crystals - 210
- Etching of aluminum crystals - 125
- Etching of Fe microcrystals - 191
- Etching of K halides - 259
- Etching, use in revealing twin and dislocation structure in triglycine sulfate - 605
- Etching, use in study of radiation damage in alkali halides - 281
- Etch pits formed on silver at high temperatures - 127
- Expansion coefficient of irradiated alkali halides - 514
- Extinction, secondary, correction for - 97
- Face development on ice spheres - 649
- Faceting, effect on growth of crystal faces - 214
- Fe_4CeAl_8 - 436
- Fe_3C , electron-diffraction study - 694
- Fe-Co alloy, long-range order in - 637
- Fe^{+3} ions in andalusite, EPR spectra of - 249
- Fe microcrystals, dislocations in - 191
- Fe-Mn-Y-Ge garnets - 188
- Ferrite, bismuth, system with PbTiO_3 - 62
- Ferrite, Ni, effect of Magnetization on resistivity - 251
- Ferrites of Y, Ho, Er, and Gd - 371
- Ferroelectric crystals, internal friction in - 335
- Ferroelectric crystals, symmetry of - 150
- Ferroelectric domains in triglycine sulfate - 756
- Ferroelectric domains of BaTiO_3 , effect of mechanical stress - 611
- Ferroelectric domain structure in triglycine sulfate - 605
- Ferroelectricity of Co-containing BaTiO_3 - 646
- Ferroelectricity of guanidinium aluminum sulfate, effect of gamma rays on - 121
- Ferroelectricity of Rochelle salt at ultra-high frequencies - 319
- Ferroelectricity, origin of - 641
- Ferroelectrics, perovskite, bond types in - 484
- Ferroelectrics, perovskite-type, calculation of electric field in - 768
- Ferroelectrics with high piezoelectric moduli - 251
- Ferroelectric transition in $(\text{NH}_4)_2\text{BeF}_4$ - 182
- Ferromagnetic alloy, effect of mechanical twinning - 253
- Ferromagnetic crystals, symmetry of - 150
- Fe-Si alloy, accommodation zones in - 195
- Fe-Si, approach to magnetic saturation - 511
- $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$, elastic properties of - 753
- $\text{FeSr}_2\text{TaO}_6$, phase transition in - 246
- Fe_7W_6 -type compounds - 165
- Fe-Y garnet, hydrothermal synthesis of - 521
- Fe-Y garnet, magnetic structure of - 765
- Films, amorphous, of $(\text{Ga}, \text{In}, \text{Sb})_2(\text{Se}, \text{Te})_3$ compounds - 704

- Films in Ni-Te system - 364
- Films of CdS, orientation in - 172
- Films of CdTe, monocrystalline - 711
- Films of gamma-CuI - 292
- Films of Ge, electron diffraction - 279
- Films of Ge, preparation by iodide method - 774
- Films of Ge, recrystallization of - 625
- Films of PbS - 87
- Films of silver selenides - 52
- Films of Te - 451
- Films of TlBiSe₂ - 686
- Fourier transforms of crystal polyhedra - 155
- Frank-Read sources - 759
- Friction, internal, measurement in ferroelectric crystals - 335
- Fused silica, changes upon heating in hydrogen - 746
- GaAs, nonstoichiometric - 691
- Gamma rays, effect on triglycine sulfate - 312
- Gamma rays, effect on guanidinium aluminum sulfate - 121
- Garnet systems, magnetic properties and structures - 188
- Garnet-type compounds of Fe with Y, Ho, Er, and Gd - 371
- Garnet, Y-Fe, hydrothermal synthesis of - 521
- Garnet, Y-Fe, magnetic structure of - 765
- Ga₂Se₃ and Ga₂Te₃, amorphous films - 704
- Ga, ternary Laves phases containing - 103
- Gd ferrite, domain structure - 371
- Ge crystals, anodic etching of - 210
- Ge crystals, etching near dislocations - 257
- Ge crystals, fractographic study - 383
- Ge films, electron diffraction - 279
- Ge films, preparation by iodide method - 774
- Ge-Mn-Y-Fe garnets - 188
- Geometric factors in structure of matter - 410
- Germanate, strontium, structure of - 573
- Germanium films, recrystallization in - 625
- Ge, ternary Laves phases containing - 103
- Ginzburg-Devonshire theory of ferroelectricity - 182
- Glass, silica, changes upon heating in hydrogen - 746
- Glazerite, crystalloluminescence of - 464
- Grain boundaries, large-angle, formation conditions of - 731
- Graphite formed from diamond, orientation of - 749
- Groups, antisymmetry - 661
- Groups, antisymmetry, for infinite double-sided ribbons - 651
- Groups, limit, of double antisymmetry - 669
- Groups, symmetry - 394
- Growing LiF crystals, dry method for - 622
- Growth forms of crystals, kinetics of - 728
- Growth of crystal needle in binary melt - 354
- Growth of crystals by Czochralski method, inhomogeneities in - 349
- Growth of crystals, effect of ultrasonics - 522
- Growth of crystals from the melt under pressure - 265
- Growth of crystals in condensed systems - 226
- Growth of crystals in Ge films - 625
- Growth of crystals, sectorial - 345
- Growth of forms on ice sphere, kinetics of - 649
- Growth of K alum crystals, effect of ultrasonics - 492
- Growth of KIO₃ crystals - 770
- Growth of K niobate and tantalate crystals - 233
- Growth of nepheline crystals, hydrothermal - 519
- Growth of Sn whiskers - 616
- Growth of Tl halide crystals - 308
- Growth rate of crystal faces - 214
- Guanidinium aluminum sulfate, effect of gamma rays on - 121
- Guanidinium aluminum sulfate, inverse piezoelectric effect - 369
- Halite, deformed, light scattering and spectra - 117
- Halite, dislocations produced by indentation - 330
- Hard alloys, cobalt cementing phase in - 162
- Hardening due to dislocations - 759
- Harmonic analysis of line shapes - 15
- Heat capacities of organic crystals, calculation of - 152
- Heat-treated CdS powder - 296
- Heat-treatment, effect on Sn whisker growth - 616
- Heat treatment of CuI films - 292
- Heat-treatment of steel - 101
- Heavy-atom structures, intensity statistics in - 551
- Helical macroinhomogeneities in Czochralski method - 349
- Hexagonal crystals, interaction of dislocations in - 759
- Hexamethylenetetramine crystals, calculation of heat capacity - 152
- (Hf, Ti)BaO₃ crystals - 251
- Hg organic compounds, structures of - 363
- Hillocks formed on silver at high temperatures - 127
- Ho ferrite, domain structure - 371
- Hydrobiotites - 715
- Ice crystals, spherical - 488
- Ice, kinetics of growth of forms on spheres - 649
- Impure crystals, morphology and cracking in - 92
- Impurity segregation about dislocations in Cd - 480
- Impurity segregation in Czochralski method - 349
- InAs, nonstoichiometric - 691
- Incoherent-scattering functions - 431
- Indentation, distribution of dislocations about - 83
- Indentation figures on cubic crystals - 202
- Indentation of LiF and dislocations - 380
- Indentation of NaCl and dislocations - 330
- Indexing of powder patterns - 386
- Indicatrix, optical - 302
- Inhomogeneities in crystals, macro - 345
- Inhomogeneities, macro, in Czochralski method - 349
- In₂Se₃ and In₂Te₃, amorphous films - 704
- Integrated intensities - 98
- Intensity statistics in heavy-atom structures - 551
- Interatomic distances in isoelectronic semiconductors - 99

- Interference of x rays from different mosaic blocks - 109
- Internal friction, measurement in ferroelectric crystals - 335
- In, ternary Laves phases containing - 103
- Inversion center, statistical test for, in heavy-atom structures - 551
- Iodide method of preparing Ge films - 774
- Ionic and metallic crystals, epitaxy of - 222
- Ionic character and tetrahedral atomic radii - 454
- Ionic crystals, calculation of electric fields in - 768
- Ionic crystals, formation of relief features on - 734
- Ionic radii in perovskite ferroelectrics - 484
- Ions, role in dipole ordering - 641
- Iron carbide (cementite), electron-diffraction study - 694
- Iron-cobalt alloy, long-range order in - 637
- Iron garnets with Y, Ho, Er, and Gd - 371
- Iron, garnet systems with Mn, Y, and Ge - 188
- Iron in andalusite, EPR spectra of - 249
- Iron microcrystals, dislocations in - 191
- Iron Ni oxide, magnetization and resistivity - 251
- Iron-silicon alloy, accommodation zones in - 195
- Iron, silicon-, approach to magnetic saturation - 511
- Iron strontium tantalate, phase transition in - 246
- Iron sulfate ($\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$), elastic properties of - 753
- Iron, ternary compound with Ce and Al - 436
- Iron-yttrium garnet, magnetic structure of - 765
- Irradiated alkali halides, expansion coefficient of - 514
- Irradiated crystals, contact melting of - 131
- K alum, growth rate of - 214
- K alum, nucleation by ultrasonics - 492
- Kaolinite-type minerals - 38
- KCl and KBr, elastic anisotropy of - 516
- KCl and KBr, irradiated - 514
- KCl, proton-irradiated - 338
- KCl, triboluminescence of - 464
- KCl, x irradiation of - 281
- K halides, etching of - 259
- KH_2PO_4 , electrooptical coefficient of - 509
- Kinetics of crystal growth - 535
- Kinetics of growth of forms on ice sphere - 649
- KIO_3 , crystallization of - 770
- KIO_3 , structure of - 499
- KI (Tl), triboluminescence of - 464
- $\text{K}_3\text{Na}(\text{SO}_4)_2$, crystalloluminescence of - 464
- K Na tartrate, properties at ultra-high frequencies - 319
- KNbO_3 and KTaO_3 , growth of crystals - 233
- KNO_3 , phase transitions in - 382
- K tartrate, polarization by hydrostatic pressure - 473
- LaAlO_3 - PbTiO_3 system - 323
- Lamellar specimens, effect of crystal elongation on electron-diffraction intensities in - 775
- Large-angle boundaries, formation conditions of - 731
- Lattice complexes in the cubic system - 5
- Lattice constants of compounds with tetrahedral coordination - 454
- Lattice distortion - 15
- Lattice distortion in mechanical twinning - 253
- Lattice distortions in U-10 steel - 101
- Lattice dynamics, Born-Huang - 423
- Lattice-parameter determination from powder patterns - 386
- Lattice parameters, effect of nonuniformity on diffraction spot size - 721
- Lattice parameters of nonstoichiometric InAs and GaAs - 691
- Laue patterns, spot size in - 721
- Laves phases, ternary - 103
- Lead bismuth telluride - 32
- Lead magnetungstate (Pb_2MgWO_6) - 577
- Lead sulfide, decoration by precipitation of - 206
- Lead sulfide films - 87
- Lead titanate-bismuth ferrite system - 62
- Lead titanate-lanthanum aluminate system - 323
- Least-squares refinement, corrections to normal equations - 772
- LiF crystals, dry method for growing - 622
- LiF, dislocation formation by indentation - 380
- LiF, dislocation formation by vibration - 378
- LiF, dislocations in - 83
- LiF, effect of electric field on dislocations - 376
- LiF, triboluminescence of - 464
- LiF, x irradiation of - 281
- Light scattering in deformed NaCl - 117
- Liquid crystals, effect of ultrasonics - 263
- Liquid-crystal textures, cholesteric and nematic - 619
- Liquids, structure of - 410
- Li_2SO_4 , polarization by hydrostatic pressure - 473
- Long-range order in Fe-Co alloy - 637
- Losses, dielectric, in PbTiO_3 - LaAlO_3 system - 323
- Lozozerite, statistical space-group test - 551
- Low-temperature absorption spectra of nickel ammonium sulfate - 67
- Luminescence of Tl halide crystals - 308
- Magnetic saturation in silicon-iron - 511
- Magnetic structure, effect of mechanical twinning - 253
- Magnetic structure of austenitic steel - 497
- Magnetic structure of Cr - 639
- Magnetization, effect on resistivity of Ni ferrite - 251
- Magnetoelectric symmetries - 418
- Measurement of changes in polarization constants of crystals - 476
- Mechanical properties of NaCl whiskers - 341
- Mechanical stress, effect on domain structure of BaTiO_3 - 611
- Mechanical twinning and lattice distortion - 253
- Mechanical twinning and stoppage sites - 256
- Mercurials, structures of - 363
- Metallic and ionic crystals, epitaxy of - 222
- Mica mixed-layer structures - 715
- Micas, electron-diffraction study of - 502

- Microanalysis, x-ray spectral, in studying impurity segregation - 480
- Microscopy, absorption-contrast method in - 506
- Mixed-layer vermiculite-biotite structures - 715
- $\text{Mg}_{17}\text{Ba}_2$ and $\text{Mg}_{17}\text{Sr}_2$ - 22
- MgPb_2WO_6 , structure and system with PbTiO_3 - 577
- $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, elastic properties of - 753
- Mg, ternary Laves phases containing - 103
- Mn_2CuO_4 , cation arrangement in - 680
- Mn, ternary compounds with Ce and Al - 436
- Mn, ternary Laves phases containing - 103
- Mn-Y-Fe-Ge garnets - 188
- MoBe_{22} , structure of - 701
- Mo compounds with perovskite-type structure - 358
- Monocrystals, formation of relief features on - 734
- Morphological varieties of the cube - 539
- Morphology and cracking in impure crystals - 92
- Mosaic blocks, effect on spot size - 721
- Mosaic blocks, interference of x rays diffracted from - 109
- MoSi_2 - 544
- Motion, effect of growth of crystal faces - 214
- Mullite, statistical model for structure - 271
- NaAlSiO_4 (nepheline), hydrothermal synthesis of - 519
- Na and Na^+ , incoherent-scattering functions for - 431
- NaCl, deformed, light-scattering in, and spectra - 117
- NaCl, dislocation formation by vibration - 378
- NaCl, dislocations produced by indentation - 330
- NaCl, effect of electric field on dislocations - 376
- NaCl, irradiated - 514
- NaCl, triboluminescence of - 464
- NaCl-type crystals, x irradiation of - 281
- NaCl whiskers - 341
- NaCl, x irradiation of - 281
- $\text{NaK}_3(\text{SO}_4)_2$, crystalloluminescence of - 464
- Na K tartrate, properties at ultra-high frequencies - 319
- N and N^- , incoherent-scattering functions for - 431
- Naphthalene crystals, calculation of heat capacity - 152
- Naphthalene, effect of ultrasonics on crystallization - 522
- NaTaO_3 , internal electric field - 9
- NaTaO_3 , phase transitions in - 584
- Natrodevine, hydrothermal synthesis of - 519
- Nb-Ni system - 165
- Nematic liquid-crystal textures - 619
- Nepheline, hydrothermal synthesis of - 519
- Networks, bipyramidal - 673
- Neutron diffractometer - 58
- Neutron exposure, effect on properties of quartz - 185
- Neutron scattering, coherent, of yttrium nuclei - 767
- Neutron scattering, slow, in spinels - 286
- $(\text{NH}_4)_2\text{BeF}_4$, ferroelectric transition in - 182
- NH_4Cl and NH_4Br , origin of dipole ordering in - 641
- $\text{NH}_4\text{H}_2\text{PO}_4$, electrooptical coefficient of - 509
- Ni-Be alloys - 104
- Nickel ammonium sulfate, absorption spectra - 67
- Ni compounds with perovskite-type structure - 358
- Ni ferrite, effect of magnetization on resistivity - 251
- Niobate, K, growth of crystals - 233
- $\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$, elastic properties of - 753
- Ni-Ta and Ni-Nb systems - 165
- Ni, ternary Laves phases containing - 103
- Ni-Te system, thin films - 364
- Normal equations in least-squares refinement - 772
- Nucleation, electric field effect on - 129
- Nucleation of K alum by ultrasonics - 492
- Nucleus, crystallization, size determination of - 237
- O and O^{++} , incoherent-scattering functions for - 431
- $1.71\text{Al}_2\text{O}_3 \cdot \text{SiO}_2$ (mullite), structure of - 271
- Optical polarization method in studying impurity segregation - 480
- Optical properties of an anisotropic plate - 468
- Optical properties of absorbing crystals - 108
- Optical study of pentaerythritol symmetry - 633
- Optic axes in absorbing crystals - 588
- Order, long-range, in Fe-Co alloy - 637
- Orientation of crystalline grains, optical - 112
- Orientation of crystals by electron spin resonance - 175
- Orientation of crystals, x-ray camera for - 518
- Orientation of diamonds - 360
- Ordering of dipoles, origin of, in structures with special dielectric properties - 641
- Packing errors in Co phase in cemented carbides - 162
- Paramagnetic resonance of Fe in andalusite - 249
- p-Azoxyanisole and p-Azoxyphenetole, liquid-crystal mixtures with rosin - 619
- PbBi_4Te_7 - 32
- Pb_2MgWO_6 , structure and system with PbTiO_3 - 577
- PbS, decoration by precipitation of - 206
- PbS films - 87
- PbTiO_3 - BiFeO_3 system - 62
- PbTiO_3 - LaAlO_3 system - 323
- Pentaerythritol, morphologic symmetry of - 633
- Perovskite ferroelectrics, bond types in - 484
- Perovskite-type compounds, phase transitions in - 358
- Perovskite-type Pb_2MgWO_6 - 577
- Perovskite-type structures, calculation of electric fields in - 768
- Phase transition of quartz - 458
- Phase transitions in perovskite-type compounds - 358
- Phase-transition temperatures in perovskite ferroelectrics - 484
- Phlogopite-biotite micas, electron-diffraction study - 502
- Photographs, x-ray diffraction, spot size on - 721
- Piezoelectric effect, inverse, in guanidinium aluminum sulfate - 369
- Piezoelectric effect, inverse, in triglycine sulfate - 756
- Piezoelectric effects, symmetry changes in - 119
- Piezoelectric moduli, crystals having high - 251
- Piezoelectric transducers, slotted, quartz - 124

- Plasticity and strength of crystals - 403
- Pleochroism of colored synthetic quartz - 113
- Point groups of double antisymmetry - 669
- Polarization constants of crystals, measurement of changes in - 476
- Polarization of pyroelectric crystals by hydrostatic pressure - 473
- Polyhedra, Fourier transforms of - 155
- Polyhedral arrangement in Th_3P_4 -type structure - 556
- Polymeric sulfur, stabilization with As - 447
- Polymers, elastic, electrets of - 645
- Potassium alum, growth rate of - 214
- Potassium alum, nucleation by ultrasonics - 492
- Potassium chloride and bromide, elastic anisotropy of - 516
- Potassium chloride and bromide, irradiated - 514
- Potassium chloride, proton-irradiated - 338
- Potassium chloride, triboluminescence of - 464
- Potassium chloride, x irradiation of - 281
- Potassium dihydrogen phosphate, electrooptical coefficient of - 509
- Potassium halides, etching of - 259
- Potassium iodate, structure of - 499
- Potassium iodide, Tl-activated, triboluminescence of - 464
- Potassium niobate and tantalate, growth of crystals - 233
- Potassium nitrate, phase transitions in - 382
- Potassium sodium sulfate, crystalloluminescence of - 464
- Potassium sodium tartrate, at ultra-high frequencies - 319
- Potassium tartrate, polarization by hydrostatic pressure - 473
- Powder pattern indexing - 386
- Precipitation from Ni-Be and Cu-Be alloys - 104
- Pressure, crystal growth under - 265
- Pressure, effect on ferroelectricity of triglycine sulfate - 643
- Pressure, effect on Sn whisker growth - 616
- Pressure, in diamond-to-graphite conversion - 749
- Proton-irradiated KCl - 338
- Pseudomorphism, failure of, in epitaxy - 222
- Pseudo-symmetry in pentaerythritol - 633
- P_4S_{10} -S amorphous solid solutions - 718
- Pt-Bi alloys, superconducting - 241
- Pyroelectric crystals, polarization by hydrostatic pressure - 473
- Quartz, alteration by fast neutrons - 185
- Quartz, crystallization of, upon heating silica glass in hydrogen - 746
- Quartz, elastic properties near transition point - 374
- Quartz, phase transition in - 458
- Quartz, pleochroism of colored synthetic - 113
- Quartz, synthetic, Raman lines of - 508
- Radial distribution in amorphous films of A_2B_3 compounds - 704
- Radial distribution in S- As_2S_3 amorphous solid solutions - 447
- Radial distribution in S- P_4S_{10} amorphous solid solutions - 718
- Radiation damage and contact melting of crystals - 131
- Radiation damage in alkali halides - 281, 514
- Radiation damage in crystals - 261
- Radiation damage in guanidinium aluminum sulfate - 121
- Radiation damage in KCl - 338
- Radiation damage in quartz - 185
- Radiation damage in triglycine sulfate - 312
- Raman lines of synthetic quartz - 508
- $\text{Rb}[\text{B}(\text{C}_6\text{H}_5)_4]$ - 289
- RbBe_2F_5 , statistical space-group test - 551
- Re-Al system - 240
- ReBe_{22} , structure of - 701
- Recrystallization of Ge films - 625
- Refinement, least-squares, corrections to normal equations - 772
- Reflection by an anisotropic plate - 468
- Refraction, ellipsoid of - 108
- Refraction, internal conical, of elastic waves - 742
- Refractive index of quartz after fast-neutron exposure - 185
- Resistivity of Ni ferrite crystal - 251
- Rhamnose, polarization by hydrostatic pressure - 473
- RhSb_2 , application of corrections to intensities - 634
- Ribbons, infinite, black-white groups of - 145
- Ribbons, infinite double-sided, antisymmetry groups - 651
- Rochelle salt, properties at ultra-high frequencies - 319
- Rock salt, deformed, light-scattering and spectra - 117
- Rock salt, dislocations produced by indentation - 330
- Rosin, liquid-crystal mixtures with p-azoxyanisole and p-azoxyphenetole - 619
- Rotation patterns, spot size in - 721
- Rubber electrets - 645
- Rubidium tetraphenylboranate - 289
- Salol, effect of thermal conditions on crystallization - 217
- Salol, effect of ultrasonics on crystallization - 522
- S- As_2S_3 amorphous solid solutions - 447
- Sb-Sc system - 243
- Sb_2Se_3 and Sb_2Te_3 , amorphous films - 704
- SbY, structure of - 636
- Scattering function, incoherent - 431
- Sc-Bi and Sc-Sb systems - 243
- Secondary extinction, correction for - 97
- Segregation of impurities in Czochralski method - 349
- Segregation of impurity about dislocations in Cd - 480
- Seignette salt, properties at ultra-high frequencies - 319
- Selenides, Ga, In, Sb, amorphous films - 704
- Semiconductor compounds, isoelectronic series - 99
- Shear waves, reflection from interface between anisotropic media - 596
- Sheftal', N. N. (60th birthday) - 659
- Shubnikov, A. V., tribute to - 141

- Shubnikov groups - 1, 145, 418, 661
 Si-Fe alloy, accommodation zones in - 195
 Silica glass, changes upon heating in hydrogen - 746
 Silicate minerals, kaolinite type - 38
 Silicate structures, layer - 502
 Silicides, structure types of - 544
 Silicon-iron, approach to magnetic saturation - 511
 Silver selenides, electron-diffraction study - 52
 Silver, surface features formed at high temperatures - 127
 Single-crystal CdTe films - 711
 Single crystals, formation of relief features on - 734
 Single-crystal photographs, spot size in - 721
 Slip in hexagonal crystals - 759
 Slow-neutron scattering in spinels - 286
 Snub cubes, structures based on - 673
 Sn whisker growth - 616
 Sodium chloride, deformed, light scattering and spectra - 117
 Sodium chloride, dislocation formation by vibration - 378
 Sodium chloride, dislocations produced by indentation - 330
 Sodium chloride, effect of electric field on dislocations - 376
 Sodium chloride, irradiated - 514
 Sodium chloride, triboluminescence of - 464
 Sodium chloride, x irradiation of - 281
 Sodium chloride whiskers - 341
 Sodium potassium sulfate, crystalloluminescence of - 464
 Sodium potassium tartrate, at ultra-high frequencies - 319
 Sodium tantalate, internal electric field - 9
 Sodium tantalate, phase transitions in - 584
 Solid solutions, amorphous, $S-P_4S_{10}$ - 718
 Solids, structure of - 410
 Solution rate of irradiated crystals - 261
 Sound waves, internal conical refraction of - 742
 Space-group determination, statistical - 428
 Space groups, antisymmetry - 661
 Space groups for infinite double-sided ribbons - 651
 Specific heats of organic crystals, calculation of - 152
 Spectra, absorption, of deformed NaCl - 117
 Spherical ice crystals, growth of - 488
 Spinel $CuMn_2O_4$, cation arrangement - 680
 Spinel, slow-neutron scattering in - 286
 Spot size on x-ray diffraction photographs - 721
 $S-P_4S_{10}$ amorphous solid solutions - 718
 Sputtering of Cu single crystal - 199
 Sr compounds with perovskite-type structure - 358
 Sr_2FeTaO_6 , phase transition in - 246
 $SrGeO_3$, structure of - 573
 Sr_2Mg_{17} - 22
 Stabilization of sulfur chains by phosphorus - 718
 Stainless steel, magnetic structure of - 497
 Statistics of intensities in heavy-atom structures - 551
 Steel, austenitic, magnetic structure of - 497
 Steel, U-10, dispersivity and lattice distortions - 101
 Strength and plasticity of crystals - 403
 Strength of crystals and dislocations - 83
 Strips, symmetry groups of - 1
 Structural calculations, use of computers (review) - 525
 Structural varieties of the cube - 539
 Structure Analysis, 2nd Conference on Computers in - 134
 Structure of matter, geometrical factors in - 410
 Structure types, AX_2 - 544
 Sulfate heptahydrates, elastic properties of - 753
 Superconducting Bi-Pt alloys - 241
 Supercooling, effect in Czochralski method - 349
 Superlattice in $PbBi_4Te_7$ - 32
 Supersaturation, effect on growth of ice sphere - 649
 Surface features formed on silver at high temperatures - 127
 Surfaces of single crystals, formation of relief features on - 734
 Symmetry groups of infinite ribbons - 145
 Symmetry group theory - 394
 Symmetry of crystals and optical activity - 738
 Symmetry of pentaerythritol crystals, morphologic - 633
 $TaNbO_3$, phase transitions in - 584
 Ta-Ni system - 165
 Tantalate, K, growth of crystals - 233
 Tasks in Crystallography Set by the 22nd Congress of the Communist Party of the Soviet Union - 142
 $TaSr_2FeO_6$, phase transition in - 246
 Te films - 451
 Tellurides, Ga, In, Sb, amorphous films - 704
 Temperature-dependence of elastic anisotropy of KCl and KBr - 516
 Temperature, effect on growth of ice sphere - 649
 Temperature factor, method of applying - 634
 Tensor, magnetic symmetry of - 71
 Tensor of electrooptical constants - 592
 Tetrahedral atomic radii - 454
 Texture of CdS films - 172
 Thallium halides, preparation and properties - 308
 Thallium, high-temperature form - 367
 Thermal conditions, effect on crystallization front - 217
 Thermal expansion of proton-irradiated KCl - 338
 Thermal neutron scattering of yttrium nuclei - 767
 Thomson cubes and AX_2 structure types - 544
 Thomson cubes, structures based on - 673
 Th_3P_4 structure, polyhedral arrangement in - 556
 Three-dimensional symmetry groups - 394
 $TiCl_2$, structure of - 169
 (Ti, Hf)BaO₃ crystals - 251
 Tin whisker growth - 616
 $TiPbO_3$ -LaAlO₃ system - 323
 $TiSi_2$ - 544
 Titanate, Ba, calculation of electric field in - 768
 Titanate, Ba, Co-containing, dielectric parameters of - 646

- Titanate, Ba, effect of mechanical stress on domains - 611
 Titanate, lead, system with BiFeO_3 - 62
 Titanates, internal electric field in - 9
 TlBiSe_2 , films of - 686
 Topography, x-ray diffraction, of crystals - 244
 Tourmaline, polarization by hydrostatic pressure - 473
 Transducers, piezoelectric, slotted, quartz - 124
 Transforms of crystal polyhedra - 155
 Transition metal-cerium-aluminum systems - 436
 Transitions, phase, in perovskite-type compounds - 358
 Triboluminescence - 464
 Triglycine sulfate, effect of gamma rays on ferroelectricity - 312
 Triglycine sulfate, effect of pressure on ferroelectricity - 643
 Triglycine sulfate, internal friction in - 335
 Triglycine sulfate, inverse piezoelectric effect in - 756
 Triglycine sulfate, twin and dislocation structure - 605
 Tungstate, lead magnesium (Pb_2MgWO_6) - 577
 Tungsten beryllide, structure of - 701
 Tungsten compounds with perovskite-type structure - 358
 Tungsten, crystal growth from vapor - 630
 Tungsten nitride II - 299
 Tungsten trioxide, origin of dipole ordering in - 641
 Twin boundary, defects at stoppage sites - 256
 Twin structure in triglycine sulfate - 605
 Twinning in Fe-Si alloy - 195
 Twinning in KIO_3 crystals - 770
 Twinning, lattice distortion in - 253
 Ultra-high-frequency properties of Rochelle salt - 319
 Ultrasonic pulse method of determining elastic constants of crystals - 326
 Ultrasonic study of sulfate heptahydrates - 753
 Ultrasonics, effect on initial crystallization - 522
 Ultrasonics, effect on liquid crystals - 263
 Ultrasonics, effect on Sn whisker growth - 616
 Unit cell volumes of beryllides - 570
 Unstable faces formed on silver at high temperatures - 127
 U-10 steel, dispersivity and lattice distortions in - 101
 Vapor-phase crystal growth of W - 630
 Vermiculite-biotite mixed-layer structures - 715
 Vibration and dislocation formation - 378
 Vitriols, elastic properties of - 753
 Vulcanization, formation of electrets during - 645
 Waller-Hartree method of calculating incoherent-scattering function - 431
 Waves, shear, reflection from interface between anisotropic media - 596
 WBe_{22} , structure of - 701
 W compounds with perovskite-type structure - 358
 W, crystal growth from vapor - 630
 W_6Fe_7 -type compounds - 165
 Whiskers of Ge - 774
 Whiskers of NaCl - 341
 Widths of Raman lines of synthetic quartz - 508
 W nitride, rhombohedral form II - 299
 WO_3 , origin of dipole ordering in - 641
 WPb_2MgO_6 , structure and system with PbTiO_3 - 577
 X irradiation of NaCl-type crystals - 281
 X-ray calculations, use of computers (review) - 525
 X-ray camera for orienting crystals - 518
 X-ray diffraction intensities, method of applying absorption correction and temperature factor - 634
 X-ray diffraction photographs, spot size on - 721
 X-ray spectral microanalysis in studying impurity segregation - 480
 YBi and YSb, structures of - 636
 Y-Fe garnet, hydrothermal synthesis of - 521
 Y-Fe garnet, magnetic structure of - 765
 Y ferrite, domain structure - 371
 Y-Mn-Fe-Ge garnets - 188
 Yttrium, coherent scattering of thermal neutrons - 767
 Zn compounds with perovskite-type structure - 358
 Zn, segregation about dislocations in Cd - 480
 ZnSO_4 , elastic properties of - 753
 Zn, ternary Laves phases containing - 103

